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(54) **FIBER-BOUND ENGINEERED MATERIALS FORMED USING ELEMENT SCRIMS**

(57) A fiber-bound engineered material is provided that imparts an intended characteristic at an intended relative location. A fiber layer is entangled with additional fibers in a manner to create a non-uniform engineered material. The lack of uniformity of a fiber-bound engineered material may be accomplished through manipulation of the fibers and/or through fiber binding a scrim. The fiber layer binds with additional fibers through en-

tanglement such that a mechanical connection between the entangled fibers is provided. This entanglement allows the fibers to bind without supplemental adhesives, interlacing, or connections. Variations in the fibers and/or inclusion of scrim materials prior to entanglement allows for an intended characteristic (e.g., a functional characteristic) at an intended relative location (e.g., a position determined by an article to be formed therefrom).

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			TECHNICAL FIELDS SEARCHED (IPC)
			B32B
The present search report has been drawn up for all claims			
Place of search <b>The Hague</b>		Date of completion of the search <b>6 June 2024</b>	Examiner <b>Hillebrand, Gerhard</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

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5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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